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PATENT ABSTRACTS OF JAPAN

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(71)Applicant : HITACHI LTD
HITACHI MICOM SYST:KK

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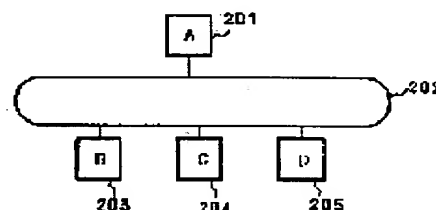
(72)Inventor : HONMA KOICHI
OSHIMA KEIJI
SUEKI MASAO
KASAMA TAKASHI
KAGAWA TOSHIYA

(54) MASS DATA TRANSMITTING METHOD

(57)Abstract:

PURPOSE: To secure reliability through simple procedure, and in addition, to attain the efficient transmission of mass data by transmitting continuously plural information frames by using a connectionless transmitting means.

CONSTITUTION: A system is constituted of a transmitter 201, a physical communication line 202 in which the information frame flows, and receivers 203 to 205. In this case, a means to transmit continuously plural data packets by using the connectionless transmitting means, and after that, execute the reception of a reception confirming packet or a retransmission requesting data packet and the transmission of a retransmitted data packet is provided. Then, the mass data is transmitted by using the efficient connectionless transmitting means in which the reliability is not secured, and after that, the transmission of the reception confirming, the retransmission requesting, and the retransmission requested data is executed by using the connection-oriented transmitting means in which the reliability is secured.



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Basic Patent (No, Kind, Date): EP 552794 A2 19930728 <No. of Patents: 007>

Patent Family:

Patent No	Kind	Date	Applic No	Kind	Date	
DE 69328578	C0	20000615	DE 69328578	A	19930122	
DE 69328578	T2	20010201	DE 69328578	A	19930122	
EP 552794	A2	19930728	EP 93100955	A	19930122	(BASIC)
EP 552794	A3	19950524	EP 93100955	A	19930122	
EP 552794	B1	20000510	EP 93100955	A	19930122	
JP 5207023	A2	19930813	JP 9210764	A	19920124	
US 5572678	A	19961105	US 8303	A	19930125	

Priority Data (No, Kind, Date):

JP 9210764 A 19920124

PATENT FAMILY:

GERMANY (DE)

Patent (No, Kind, Date): DE 69328578 C0 20000615

Leistungsfahiges und betriebssicheres ubertragungsverfahren und System
fur grosse Datenmengen (German)

Patent Assignee: HITACHI LTD (JP); HITACHI MICROCOMPUTER ENG (JP)

Author (Inventor): HOMMA KOICHI (JP); OSHIMA KEIJI (JP); SUEKI MASAO
(JP); KASAMA TAKASHI (JP); KAGAWA TOSHIYA (JP)

Priority (No, Kind, Date): JP 9210764 A 19920124

Applic (No, Kind, Date): DE 69328578 A 19930122

IPC: * H04Q-011/04

Language of Document: German

Patent (No, Kind, Date): DE 69328578 T2 20010201

LEISTUNGSFAEHIGES UND BETRIEBSSICHERES UEBERTRAGUNGSVERFAHREN UND
SYSTEM FUER GROSSE DATENMENGEN (German)

Patent Assignee: HITACHI LTD (JP); HITACHI MICROCOMP ENGINEERING
(JP)

Author (Inventor): HOMMA KOICHI (JP); OSHIMA KEIJI (JP); SUEKI MASAO
(JP); KASAMA TAKASHI (JP); KAGAWA TOSHIYA (JP)

Priority (No, Kind, Date): JP 9210764 A 19920124

Applic (No, Kind, Date): DE 69328578 A 19930122

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Derwent WPI Acc No: * G 93-236491

JAPIO Reference No: * 170642E000078

Language of Document: German

EUROPEAN PATENT OFFICE (EP)

Patent (No, Kind, Date): EP 552794 A2 19930728

EFFICIENT AND RELIABLE LARGE-AMOUNT DATA TRANSMISSION METHOD AND SYSTEM

(English; French; German)

Patent Assignee: HITACHI LTD (JP); HITACHI MICROCOMPUTER ENG (JP)

Author (Inventor): HOMMA KOICHI HAKURAKU HAUSU (JP); OSHIMA KEIJI
(JP); SUEKI MASAO (JP); KASAMA TAKASHI (JP); KAGAWA TOSHIYA (JP)

Priority (No, Kind, Date): JP 9210764 A 19920124

Applic (No, Kind, Date): EP 93100955 A 19930122

Designated States: (National) DE; FR; GB

IPC: * H04L-012/28

Language of Document: English

Patent (No, Kind, Date): EP 552794 A3 19950524

EFFICIENT AND RELIABLE LARGE-AMOUNT DATA TRANSMISSION METHOD AND SYSTEM

(English; French; German)

Patent Assignee: HITACHI LTD (JP); HITACHI MICROCOMPUTER ENG (JP)

Author (Inventor): HOMMA KOICHI HAKURAKU HAUSU (JP); OSHIMA KEIJI
(JP); SUEKI MASAO (JP); KASAMA TAKASHI (JP); KAGAWA TOSHIYA (JP)

Priority (No, Kind, Date): JP 9210764 A 19920124

Applic (No, Kind, Date): EP 93100955 A 19930122

Designated States: (National) DE; FR; GB

IPC: * H04L-012/28

Language of Document: English

Patent (No, Kind, Date): EP 552794 B1 20000510

Efficient and reliable large-amount data transmission method and system

Procede et systeme efficace et fiable pour la transmission de grande

quantite de donnees Leistungsfahiges und betriebssicheres

ubertragungsverfahren und System fur grosse Datenmengen (English;

French; German)

Patent Assignee: HITACHI LTD (JP); HITACHI MICROCOMPUTER ENG (JP)

Author (Inventor): HOMMA KOICHI (JP); OSHIMA KEIJI (JP); SUEKI MASAO
(JP); KASAMA TAKASHI (JP); KAGAWA TOSHIYA (JP)

Priority (No, Kind, Date): JP 9210764 A 19920124

Applic (No, Kind, Date): EP 93100955 A 19930122

Designated States: (National) DE; FR; GB

IPC: * H04Q-011/04

Language of Document: English

JAPAN (JP)

Patent (No, Kind, Date): JP 5207023 A2 19930813

MASS DATA TRANSMITTING METHOD (English)

Patent Assignee: HITACHI LTD; HITACHI MICOM SYST KK

Author (Inventor): HOMMA KOICHI; OSHIMA KEIJI; SUEKI MASAO; KASAMA
TAKASHI; KAGAWA TOSHIYA

Priority (No, Kind, Date): JP 9210764 A 19920124

Applic (No, Kind, Date): JP 9210764 A 19920124

IPC: * H04L-012/28

JAPIO Reference No: ; 170642E000078

Language of Document: Japanese

UNITED STATES OF AMERICA (US)

Patent (No, Kind, Date): US 5572678 A 19961105

System for sending frames from sender to receiver using connectionless
protocol and receiving acknowledging frame and retransmission request

frame from receiver using connection oriented protocol (English)
Patent Assignee: HITACHI LTD (JP); HITACHI MICROCOMPUTER SYST (JP)
Author (Inventor): HOMMA KOICHI (JP); OSHIMA KEIJI (JP); SUEKI MASAO
(JP); KASAMA TAKASHI (JP); KAGAWA TOSHIYA (JP)
Priority (No,Kind,Date): JP 9210764 A 19920124
Applic (No,Kind,Date): US 8303 A 19930125
National Class: * 395200120; 370060000; 364222200; 364284300;
364284400; 364DIG001
IPC: * G06F-013/00
Language of Document: English

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